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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/623,533	09/05/2000	Dominique P. Bridon	REDC-1510USA	3921	
20872 7	590 09/25/2003				
MORRISON & FOERSTER LLP 425 MARKET STREET			EXAMINER		
,	SCO, CA 94105-2482		PARKIN, JI	PARKIN, JEFFREY S	
			ART UNIT	PAPER NUMBER	
			1648	/	
			DATE MAILED: 09/25/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)			
Office Action Comments	09/623,533	BRIDON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jeffrey S. Parkin, Ph.D.	1648			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a rep y within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH t, cause the application to become ABAI	ly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
1)⊠ Responsive to communication(s) filed on <u>24 F</u>	February 2003 and 16 June	2003 .			
	is action is non-final.				
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims	ance except for formal matte	ers, prosecution as to the merits is 11, 453 O.G. 213.			
4)⊠ Claim(s) <u>1,3,4,6,19-21 and 31-58</u> is/are pendi	ng in the application				
4a) Of the above claim(s) <u>32-35,40-51,54 and 56-58</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	oo oo loraro wanarawii iioiii	consideration.			
6) Claim(s) 1, 3, 4, 6, 19-21, 31, 36-39, 52, 53, ar	ad 55 is/are rejected				
7) Claim(s) is/are objected to.	ioraro rojectoa.				
8) Claim(s) are subject to restriction and/o	r election requirement				
Application Papers	r cloodon requirement.				
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) □ accept	oted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).			
11)☐ The proposed drawing correction filed on	_ is: a) ☐ approved b) ☐ disa	approved by the Examiner.			
If approved, corrected drawings are required in rep	oly to this Office action.				
12) The oath or declaration is objected to by the Ex	aminer.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents 	s have been received.				
Certified copies of the priority documents	s have been received in App	olication No			
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	· ·			
	•				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received.					
15) Acknowledgment is made of a claim for domesti					
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)			

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Docket No.: REDC-151USA Applicants: Bridon, D.P., et al. Filing Date: 09/05/00

Response to Amendment

Status of the Claims

1. Acknowledgement is hereby made of receipt and entry of the amendments submitted 24 February and 16 June, 2003, wherein claims 2, 5, 7-18 and 22-30 were canceled without prejudice or disclaimer, claims 1, 3, 4, 6, 19, 20, and 21 amended, and new claims 31-58 Newly submitted claims 32-35, 40-51, and 54 are submitted. directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the product claims are directed toward conjugated peptides with different structural features and attendant biochemical activities. submitted methodology claims are directed toward a method of use The peptides are independent and for the claimed peptides. distinct from the claimed invention since they can be employed in a number of materially different processes such as diagnostic or immunological methodologies. Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 32-35, 40-51, and 54 are withdrawn from further consideration as being directed towards a nonelected invention (refer to 37 C.F.R. § 1.142(b) and M.P.E.P. § 821.03). Claims 1, 3, 4, 6, 19-21, 31, 36-39, 52, 53, and 55 are currently under consideration.

35 U.S.C. § 112, Second Paragraph

2. Claims 19-21, 31, 36-39, 53, and 55 are rejected under 35 U.S.C. - § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are directed toward a "composition" for the use in the prevention and treatment of HIV infection. However, the only component listed in the claims

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is a modified antiviral peptide. The term composition has an artrecognized meaning and refers to a mixture of various elements or ingredients. Accordingly, it is not readily manifest which other components comprise the claimed composition (i.e., pharmaceutical buffer, preservative, etc.). Appropriate correction is required.

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35 U.S.C. § 112, First Paragraph

3. The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1, 3, 4, 6, 19-21, 31, 36-39, 52, 53, and 55 are rejected under 35 U.S.C. § 112, first paragraph, because the specification does not reasonably enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims. The claims are broadly directed toward modified antiviral peptides "comprising" the indicated SEQ ID NOS. Appropriately drafted claim language directed toward the specific peptides (e.g., an isolated and purified chemically modified anti-viral peptide consisting of a DP-178 peptide that has been modified to contain a succinimidyl or maleimido group at the , wherein said peptide displays a reduced susceptibility to protease degradation as compared to the unmodified DP-178 peptide ... and said peptide is consists of an amino acid sequence selected from the group consisting of ...). Absent appropriate amendment to the claim language, the claims are currently rejected as set forth below.

The first paragraph of 35 U.S.C. § 112 requires that the scope of the claims must bear a reasonable correlation to the scope of

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enablement provided by the specification (refer to M.P.E.P. §§ 706.03(n) and 796.03(z)). In re Fisher, 427 F.2d 833, 839, 166 U.S.P.Q. 18, 24 (C.C.P.A. 1970). In re Vaeck, 20 U.S.P.Q.2d 1438 (C.A.F.C. 1991). Particularly where the subject matter is directed towards arts where the results are unpredictable. In re Sol, 1938 CD 723; 497 O.G. 546. This is because in arts such as chemistry it is not obvious from the disclosure of one species, what other species will work. In re Dreshfield 1940 CD 351; 518 O.G. 255.

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The only requirement for the claimed invention is that a particular core sequence must be present in the modified peptide. Thus the claims allow for polypeptides with significant additions at either or both termini. However, it has been well-documented in the art that the addition of flanking sequences can have an unpredictable influence on the biochemical properties of any given The invention is predicated upon the inhibition of an active fusion conformation that is generated during virion-cell surface receptor binding and entry. Thus, the peptide of interest needs to be able to interact with the complex in a highly specific manner in order to effectively inhibit viral replication. However, it seems extremely unlikely that a full-length modified viral peptide would display the same specificity and antiviral activity. The skilled artisan would reasonably expect steric hindrance to prevent the polypeptide of interest from binding to the complex. Moreover, the disclosure fails to provide sufficient guidance pertaining to those additional flanking sequences that can be included without abrogating antiviral activity. Accordingly, when all the aforementioned factors are considered in toto, it would clearly required undue experimentation from the skilled artisan to practice the claimed invention.

Correspondence

5. Correspondence related to this application may be submitted to Group 1600 by facsimile transmission. The faxing of such papers

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must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). Official communications should be directed toward the following Group 1600 fax number: (703) 872-9306. Any inquiry concerning this communication should be directed to Jeffrey S. Parkin, Ph.D., whose telephone number is (703) 308-2227. The examiner can normally be reached Monday through Thursday from 8:30 AM to 6:00 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner are unsuccessful, the examiner's supervisors, Laurie Scheiner or James Housel, can be reached at (703) 308-1122 or (703) 308-4027, respectively. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703) 308-0196.

Respectfully,

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Jef∮rey S. Parkin, Ph.D.

Patent Examiner Art Unit 1648

20 September, 2003